

Sheet 1 of 4

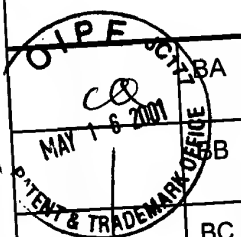
Form 1449		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 2323-156		SERIAL NO. 09/735,995							
LIST OF MATERIALS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Mark T. KEATING et al.									
				FILING DATE 14 December 2000		GROUP 1655							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
CA	AA	5	5	9	9	6	7	3	02/04/97	Keating et al.			
NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
CA	AB	Ackerman, M.J., M.D., Ph.D., "The Long QT Syndrome: Ion Channel Diseases of the Heart", <i>Mayo Clin. Proc.</i> 1998; 73:250-269											
	AC	Akimoto, K., et al., "Novel Missense Mutation (G601S) of HERG in a Japanese Long QT Syndrome Family", <i>HUMAN MUTATION</i> Supplement 1998; 1:S184-S186											
	AD	Babij, P., et al., "Inhibition of Cardiac Delayed Rectifier K ⁺ Current by Overexpression of the Long-QT Syndrome HERG G628S Mutation in Transgenic Mice", <i>Circ. Res.</i> 1998; 83(6):668-678											
	AE	Benson, D., et al., "Missense Mutation in the Pore Region of HERG Causes Familial Long QT Syndrome", <i>Circulation</i> May 15, 1996; 93(10):1791-1795											
	AF	Curran, M., et al., "A Molecular Basis for Cardiac Arrhythmia: HERG Mutations Cause Long QT Syndrome", <i>Cell</i> March 10, 1995; 80:795-803											
	AG	Dausse, E., et al., "A mutation in HERG Associated with Notched T Waves in Long QT Syndrome", <i>J. Mol. Cell Cardiol.</i> 1996; 28:1609-1615											
	AH	Fung, D., et al., "RsaI and MaeI intragenic RFLPs in the human HERG gene", <i>Clin. Genet.</i> 1998; 53:504											
✓	AI	Itoh, T., et al., "Genomic organization and mutational analysis of <i>KVLQT1</i> , a gene responsible for familial long QT syndrome", <i>Hum. Genet.</i> 1998; 103:290-294											
EXAMINER									DATE CONSIDERED 6/12/02				
EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

RECEIVED

MAY 17 2001

TECH CENTER 1600/2900

Form 1449

U.S. Department of Commerce
Patent and Trademark OfficeATTY. DOCKET NO.
2323-156SERIAL NO.
09/735,995LIST OF MATERIALS CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Mark T. KEATING et al.FILING DATE
14 December 2000GROUP
1655

BA	Janse, M.J. and Wilde, A.A.M., "Molecular Mechanisms of Arrhythmias", <i>Rev. Port. Cardiol.</i> 1998; 17(Supl. II):41-46
BB	Jiang, C., et al., "Two long QT syndrome loci map to chromosomes 3 and 7 with evidence for further heterogeneity", <i>Nature Genetics</i> October 1994; 8:141-147
BC	Keating, M.T., MD, "Genetic Approaches to Cardiovascular Disease Supravalvular Aortic Stenosis, Williams Syndrome, and Long-QT Syndrome", <i>Circulation</i> 1995; 92(1):142-147
BD	Keating, M.T., "The Long QT Syndrome A Review of Recent Molecular Genetic and Physiologic Discoveries", <i>Medicine</i> 1996; 75(1):1-5
BE	Kupershmidt, S., et al., "A K ⁺ Channel Splice Variant Common in Human Heart Lacks a C-terminal Domain Required for Expression of Rapidly Activating Delayed Rectifier Current", <i>J. Biol. Chem.</i> Oct. 16, 1998 273(42):27231-27235
BF	Lazzara, R., "Mechanisms and management of congenital and acquired long QT syndromes", <i>Arch. Mal. Coeur Vass.</i> 1996; 89 (Spec. No. 1)51-55
BG	Li, X., et al., "The Human $\Delta 1261$ Mutation of the <i>HERG</i> Potassium Channel Results in a Truncated Protein That Contains a Subunit Interaction Domain and Decreases the Channel Expression", <i>The Journal of Biological Chemistry</i> Jan. 10, 1997; 272(2):705-708
BH	Locati, E.H., et al., "Age- and Sex-Related Differences in Clinical Manifestations in Patients With Congenital Long-QT Syndrome", <i>Circulation</i> June 9, 1998; 97(22):2237-2244
BI	London, B., et al., "Two Isoforms of the Mouse <i>Ether-a-go-go</i> -Related Gene Coassemble to Form Channels With Properties Similar to the Rapidly Activating Component of the Cardiac Delayed Rectifier K ⁺ Current", <i>Circ. Res.</i> Nov. 1997; 81(5):870-878
BJ	McDonald, T., et al., "A minK-HERG complex regulates the cardiac potassium current I_{Kr} ", <i>Nature</i> July 17, 1997; 388:289-292
BK	Roden, D.M., et al., "Multiple Mechanisms in the Long-QT Syndrome", <i>Circulation</i> 1996; 94(8):1996-2012



EXAMINER

DATE CONSIDERED

6/12/02

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

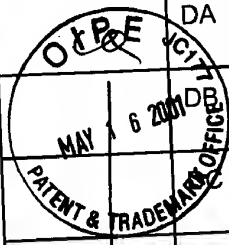

RECEIVED
MAY 17 2001
TECH CENTER 1600/2900

Form 1449		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 2323-156	SERIAL NO. 09/735,995
LIST OF MATERIALS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Mark T. KEATING et al.	
				FILING DATE 14 December 2000	GROUP 1655
	CA	Roden, D.M., et al., "Recent Advances in Understanding the Molecular Mechanisms of the Long QT Syndrome", <i>J. Cardiovasc. Electrophysiol.</i> Nov. 1995; 6(11):1023-1031			
	CC	Sanguinetti, M.C., et al., "A Mechanistic Link between an Inherited and an Acquired Cardiac Arrhythmia: <i>HERG</i> Encodes the I_{Kr} Potassium Channel", <i>Cell</i> April 21, 1995; 81:299-307			
	CC	Satler, C., et al., "Multiple different missense mutations in the pore region of <i>HERG</i> in patients with long QT syndrome", <i>Hum. Genet.</i> 1998; 102:265-272			
	CD	Satler, C., et al., "Novel Missense Mutation in the Cyclic Nucleotide-Binding Domain of <i>HERG</i> Causes Long QT Syndrome", <i>American Journal of Medical Genetics</i> 1996; 65:27-35			
	CE	Schönherr, R., et al., "Molecular determinants for activation and inactivation of <i>HERG</i> , a human inward rectifier potassium channel", <i>Journal of Physiology</i> 1996; 493.3:635-642			
	CF	Schulze-Bahr, E., et al., "Autosomal recessive long-QT syndrome (Jervell Lange-Nielsen syndrome) is genetically heterogeneous", <i>Hum. Genet.</i> 1997; 100:573-576			
	CG	Schwartz, P., et al., "Long QT Syndrome Patients With Mutations of the <i>SCN5A</i> and <i>HERG</i> Genes Have Differential Responses to Na^+ Channel Blockade and to Increases in Heart Rate", <i>Circulation</i> Dec. 15, 1995; 92(12):3381-3386			
	CH	Splawski, I., et al., "Genomic Structure of Three Long QT Syndrome Genes: <i>KVLQT1</i> , <i>HERG</i> and <i>KCNE1</i> ", <i>Genomics</i> 1998; 51:86-97			
	CH	Tanaka, T., et al., "Four Novel <i>KVLQT1</i> and Four Novel <i>HERG</i> Mutations in Familial Long-QT Syndrome", <i>Circulation</i> Feb. 4, 1997; 95(3):565-567			
	CJ	Trudeau, M., et al., " <i>HERG</i> , a Human Inward Rectifier in the Voltage-Gated Potassium Channel Family", <i>Science</i> July 7, 1995; 269:92-95, 1087			
	CK	Vincent, G.M. MD, "The Molecular Genetics of The Long QT Syndrome: Genes Causing Fainting and Sudden Death", <i>Annu. Rev. Med.</i> 1998; 49:263-74			
	CL	van den Berg, M., et al., "The long QT syndrome: a novel missense mutation in the S6 region of the <i>KVLQT1</i> gene", <i>Hum. Genet.</i> 1997; 100:356-361			
EXAMINER 			DATE CONSIDERED 6/12/02		
EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

RECEIVED

MAY 17 2001

TECH CENTER 1600/2900

Form 1449		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 2323-156	SERIAL NO. 09/735,995
LIST OF MATERIALS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Mark T. KEATING et al.	
				FILING DATE 14 December 2000	GROUP 1655
	DA	Wang, Q., et al., "Genetics, molecular mechanisms and management of long QT syndrome", <i>Ann. Med.</i> 1998; 30:58-65			
	DB	Wang, Q., et al., "The molecular basis of long QT syndrome and prospects for therapy", <i>Mol. Med. Today</i> Sept. 1998; 4(9):382-388			
		Wang, Q., et al., "Molecular genetics of long QT syndrome from genes to patients", <i>Curr. Opin. Cardiol.</i> 1997; 12:310-320			
	DE	Warmke, J.W. et al., "A family of potassium channel genes related to <i>eag</i> in <i>Drosophila</i> and mammals" <i>Proc. Natl. Acad. Sci. USA</i> 91:3438-3442 (1994)			
	DF	Wattanasirichaigoon, D. and Beggs, A.H., "Molecular genetics of long-QT syndrome", <i>Curr. Opin. Pediatr.</i> 1998; 10:628-634			
	DG	Zareba, W., et al., "Influence of the Genotype on the Clinical Course of the Long-QT Syndrome", <i>N. Eng. J. Med.</i> Oct. 1998; 339(14):960-965			
	DH	Zhou, Z., et al., "HERG Channel Dysfunction in Human Long QT Syndrome", <i>J. Biol. Chem.</i> Aug. 14, 1998; 273(33):21061-21066			
	DI	Zou, A., et al., "A mutation in the pore region of HERG K ⁺ channels expressed in <i>Xenopus</i> oocytes reduces rectification by shifting the voltage dependence of inactivation", <i>Journal of Physiology</i> , 1998; 509.1:129-137			
	DJ	OMIM ENTRY 152427 - LONG QT SYNDROME, TYPE 2; LQT2 7pp.			
EXAMINER 			DATE CONSIDERED 6/12/02		
EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

RECEIVED

MAY 17 2001

TECH CENTER 1600/2900